

b1 *Sub 1* 1. (Once amended) A multilayer, biaxially oriented polypropylene film comprising a base layer and at least one heat-sealable top layer, wherein said base layer comprises (i) a propylene polymer and (ii) a combination of a hydrocarbon resin and a wax, said resin having a mean molecular weight M_w of from 600 to 1500 and said wax having a mean molecular weight M_n of from 200 to 700.

b2 2. (Once amended) A polypropylene film as claimed in claim 1, wherein a n-heptane-insoluble content of the propylene polymer of the base layer has a chain isotacticity index, measured by means of C-NMR spectroscopy, of at least 95%.

b2 3. (Twice amended) A polypropylene film as claimed in claim 1, wherein the propylene polymer has M_w/M_n of from 1 to 10.

b3 5. (Twice amended) A polypropylene film as claimed in claim 1 wherein said resin is selected from the group consisting of an unhydrogenated styrene polymer, a methylstyrene-styrene copolymer, a pentadiene copolymer, a cyclopentadiene copolymer, an α -pinene polymer, a β -pinene polymer, a colophony, colophony derivatives, terpene polymers, hydrogenated compounds of terpene polymers, a hydrogenated α -methylstyrene-vinyltoluene copolymer, and mixtures thereof.

b4 11. (Twice amended) A polypropylene film as claimed in claim 10, wherein the polymer of the top layers has been peroxidically degraded and the degradation factor is in the range from 3 to 15.

b4 12. (Twice amended) A polypropylene film as claimed in claim 10, wherein an interlayer of α -olefinic polymers has been applied to one or both sides between the base layer and the top layers.

13. (Twice amended) A polypropylene film as claimed in claim 1, wherein the total thickness of the film is from 4 to 60 μm and the base layer makes up from about 40 to 60% of the total thickness.

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14. (Twice amended) A polypropylene film as claimed in claim 20, wherein the base layer comprises a tertiary aliphatic amine as an antistatic.

15. (Twice amended) A polypropylene film as claimed in claim 21, wherein the top layer comprises polydimethylsiloxane as a lubricant and SiO₂ as an antiblocking agent.

16. (Twice amended) A polypropylene film as claimed in claim 1, wherein all layers of the film further comprise neutralizers and stabilizers.

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17. (Once amended) A process for the production of a polypropylene film as claimed in claim 1, which comprises performing a orientation in the longitudinal direction with a longitudinal stretching ratio of from 5:1 to 9:1 and in the transverse direction with a transverse stretching ratio of from 5:1 to 10:1.

20. (New) The polypropylene film as claimed in claim 1, wherein the base layer further comprises at least one additive selected from the group consisting of neutralizers, stabilizers, antistatics and lubricants.

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21. (New) The polypropylene film as claimed in claim 1, wherein the top layer further comprises at least one additive selected from the group consisting of neutralizers, stabilizers, antistatics, lubricants and anti-blocking agents.

22. (New) The polypropylene film as claimed in claim 13, wherein the total thickness of the film is from 5 to 30 μ m.

23. (New) The polypropylene film as claimed in claim 13, wherein the total thickness of the film is from 6 to 25 μ m.

b6 b7c > 24. (New) A process for the production of oriented polypropylene films having an improved water vapor barrier action, which comprises compressing a polymer or a polymer

mixture, said polymer or polymer mixture containing a resin having a mean molecular weight Mw of from 600 to 1500 and a wax having a mean molecular weight Mn of from 200 to 700.

25. (New) A packaging film produced by the process of claim 24.

26. (New) The polypropylene film as claimed in claim 11, wherein the degradation factor is in the range from 6 to 10.

27. (New) A polypropylene film as claimed in claim 6, wherein the hydrocarbon resin is present in an amount of from 5 to 12% by weight, based on the weight of the base layer.

28. (New) A polypropylene film as claimed in claim 7, wherein the wax is present in an amount of from 1 to 8% by weight, based on the weight of the base layer.

29. (New) A polypropylene film as claimed in claim 7, wherein the wax is present in an amount of from 1 to 6% by weight, based on the weight of the base layer.

SAC 3 30. (New) A multilayer, biaxially oriented polypropylene film comprising a base layer and at least one heat-sealable top layer, wherein said base layer comprises (i) a propylene polymer and (ii) a combination of a resin and a wax,

wherein said resin being a hydrocarbon resin, fully or partially hydrogenated, having a softening point of 80°C or above and having a mean molecular weight Mw of from 600 to 1500; and

said wax being selected from the group consisting of polyethylene waxes, macrocrystalline paraffin waxes, microcrystalline paraffins and mixtures thereof and having a mean molecular weight Mn of from 200 to 700.

31. (New) A polypropylene film as claimed in claim 29, wherein said hydrocarbon resin is selected from the group consisting of petroleum resins, styrene resins, cyclopentadiene resins, terpene resins and mixtures thereof.